

Monoclonal Antibody to CD45 / LCA (CD45RC) - PE

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	AM08070RP-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	The CD45 family of cell surface glycoprotein antigens exist as a set of isoforms. (Ref.1-4) The patterns of monoclonal antibody recognition of the CD45 phenotypes can be restricted (CD45RA, RB and RC), or broader, such as the CD45 T 200 species (See also products AM08044). (Ref.1-4)The "restricted" subsets of this group arise as a result of translation of alternatively spliced mRNAs from exons A, B and C (exons 4, 5 and 6), where exons 3-15 encode the extracellular domain of the CD45 molecule. The restricted epitopes are differentially expressed on T and B lymphocytes, including functionally distinct T cells. CD45 (LCA) is a transmembrane phosphotyrosine phosphatase expressed on leucocytes. Myeloid cells do not express the RC isoform.
Uniprot ID:	P06800
NCBI:	10090
Host / Isotype:	Rat / IgG2a
Clone:	C455.1F
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE – R-Phycoerythrin
Applications:	Flow Cytometry: Identification and enumeration of CD45RC+ cells ($\leq 0.2 \mu\text{g}/10^6$ cells). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises an exon C-dependent epitope of CD45 glycoprotein. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Hathcock, K.S., Laslo, G., Dickler, H.B., Sharrow, S.O., Johnson, P. Trowbridge, I.S. and Hodes, R.J. 1992. Immunol. 148:19. 2. Bottomly, K., M. Luqman, L. Greenbaum, S. Carding, J. West, T. Pasqualini, and D.B.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



Murphy. 1989. Eur. J. Immunol. 19:617.

3. Johnson, P., L. Greenbaum, K. Bottomly, et al. 1989. J. Exp. Med. 169:1179.

4. Birkeland, M.L., et al. 1988. J. Mol. Cell. Immunol. 4:71.

Pictures:

Immunofluorescent Staining: Cells from BALB/c spleen were double stained with Rat anti-Mouse CD45RC-PE and Rat anti-Mouse CD8a-FITC (AM08023FC-N or AM08023FC-S), following which small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $\leq 0.2 \mu\text{g}/10\text{e}6$ cells.

